

**TECHNICAL SPECIFICATIONS
JUVENILE FISH FACILITY
SUPPORT BUILDING
STEEL SIDING**

1. DESCRIPTION OF WORK.

This section specifies the requirements for furnishing all labor, equipment, and materials required to install seamless steel siding on the Ice Harbor Juvenile Fish Facility Support Building. The siding shall include insulation and all soffit, fascia and other trim required for a complete finished installation.

2. INSTALLER QUALIFICATIONS.

The installer shall have specialized experience in the installation of steel siding systems for a period of at least 3 years and shall be approved by the siding manufacturer.

3. GOVERNMENT POC.

Mr. Mark Plummer, telephone (509)543-3208, will be the Government point of contact for selection of siding pattern and color and for oversight of the work. Following contract award, the Contractor shall contact Mr. Plummer to arrange for a prework meeting to discuss the work schedule, details of the work, and site safety.

4. WORK SCHEDULES

All work at the site shall be scheduled during the Government's work days/hours unless otherwise approved. The Government's schedule is 6:30 a.m. to 5:00 p.m., Monday through Thursday excluding Federal Holidays.

5. SAFETY.

All work shall be performed in accordance with the Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1. The manual is available on-line at:

<http://www.hq.usace.army.mil/soh/em385/current/current38511.htm>

6. SANITATION FACILITIES

The Government's restrooms inside the dam will not be available for use by Contractor personnel. The Contractor shall furnish sanitation facilities in accordance with COE EM 385-1-1. All facilities shall be located outside the powerhouse. The location of all facilities will be subject to COR or Project Point of Contact (POC) approval. The Contractor shall provide freeze protection during the months October through March to prevent any spillage.

7. DELIVERY AND STORAGE.

Materials shall be delivered to the site in a dry and undamaged condition and stored out of contact with the ground. Storage accommodations for siding shall provide good air circulation and protection from surface staining.

8. MATERIALS.

The steel siding shall be the product of a recognized steel siding system manufacturer who has been in the practice of manufacturing steel siding for a period of not less than 5 years.

8.1 Style and Color Selection.

The siding shall be a vertical style selected from the manufacturer's standard patterns. Color shall be selected from the manufacturer's standard styles and colors. Product data shall be submitted to the Government POC following award for selection of the style and color.

8.2 Siding shall be seamless 28 gauge, G-90 two sided hot dipped zinc galvanized steel, ASTM number 526 with 50,000 PSI tensile strength. Finish shall be Kynar 500@ Fluoropolymer PVF 2 or approved equal.

8.3 Insulation shall a 3/8 thick fanfolded extruded polystyrene underlayment , or approved equal.

8.4 Trim shall be steel flat stock and channel or other approved sections, standard with the manufacturer's siding system.

8.5 Soffit and fascia shall be steel and shall be selected from the patterns standard with the manufacturer for the siding system used. Finish material shall be the same as the siding selected.

9. INSTALLATION.

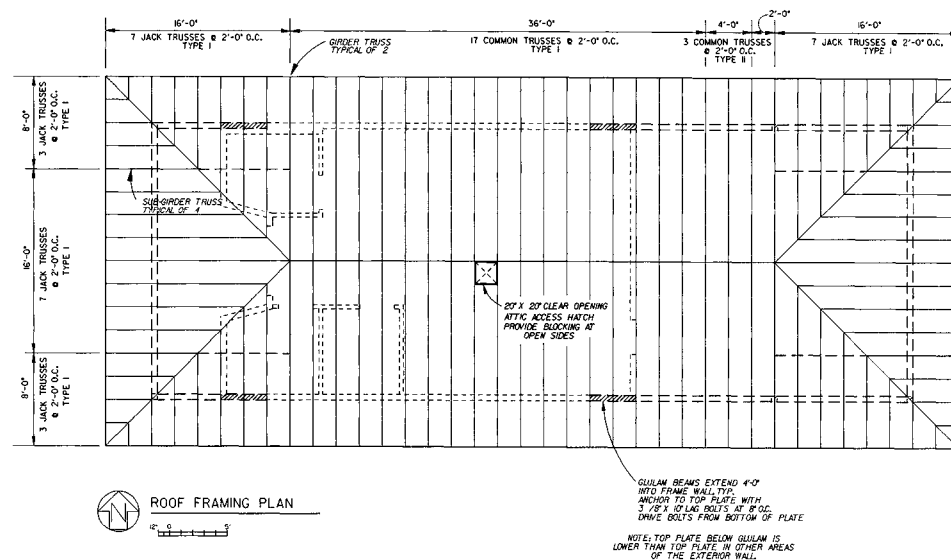
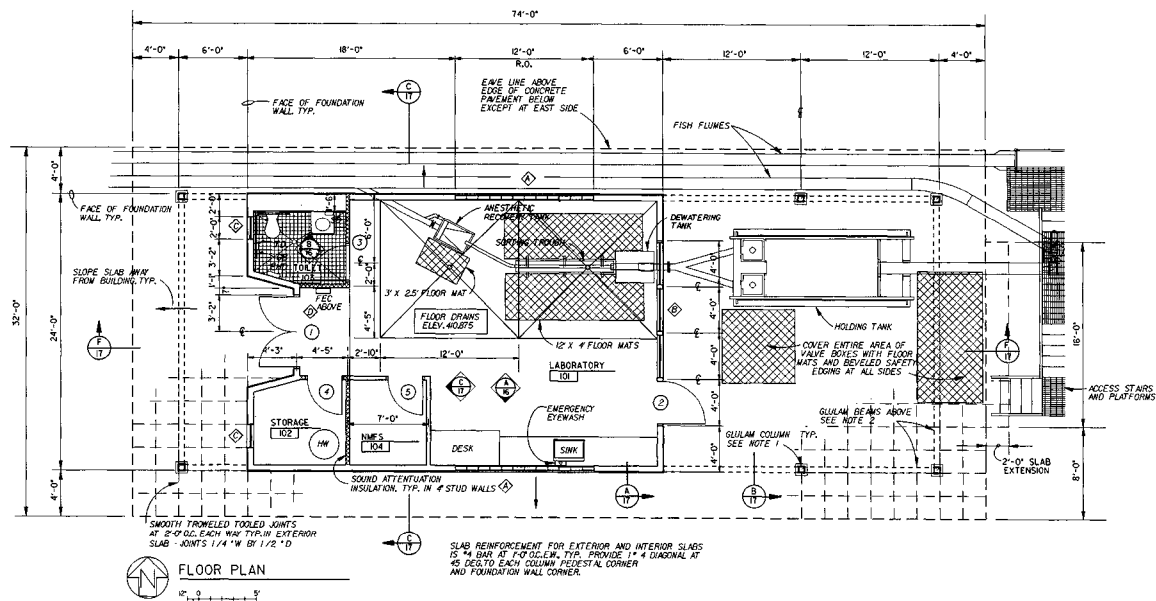
Installation, including all preparation of the existing siding system, shall be in accordance with the manufacturer's printed installation instructions. A copy of the instructions shall be furnished to the Government POC at Ice Harbor Dam, prior to beginning installation of the siding. All windows, door casings and the 6 columns shall be wrapped with metal. All light fixtures, hose bibs, and outside outlets shall be framed with flat stock or channel, as appropriate. All eaves, overhangs, and fascia shall be covered.

10. WARRANTY.

The Contractor shall furnish the manufacturer's standard warranty to the Government. The steel siding system shall be warranted against cracks, chips, blisters, flakes, or peels, as well as manufacturing defects which cause perforation or deterioration of the steel substrate due to rust during normal weathering for a period of 20 years from date of installation. The warranty shall cover material and workmanship deficiencies, system deterioration caused by leaks and wind damage. In addition, the warranty shall cover chalking of the finish in excess of A.S.T.M. D 4214-89 rating of 6 for white and 8 for colors for a period of 15 years from the date of installation.

11. CLEANUP.

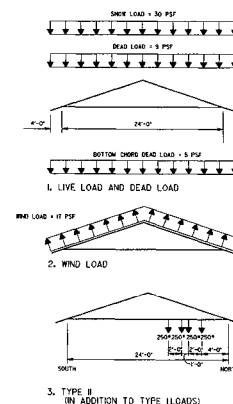
The work site shall be cleaned up daily to remove all packing materials and work related debris. Following completion of the work, a final cleanup shall be performed and the site shall be left in a neat and orderly condition. Government dumpsters and trash cans shall not be used; all job related waste materials shall be removed from the site for proper disposal.



ABBREVIATIONS

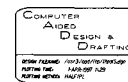
END ELECTRIC HAND DRYER
 FEC FIRE EXTINGUISHER CABINET
 GB GRAB BAR
 GWS GYPSUM WALL BOARD
 HW HOT WATER TANK
 O.C. ON CENTER
 REINF. REINFORCING
 SD SOAP DISPENSER
 TD TISSUE DISPENSER
 TYP. TYPICAL

COMMON TRUSS LOADING DIAGRAM



NOTES:

- GLULAM COLUMNS ARE 5 1/8" x 6" COMBINATION 5 FOR WET CONDITIONS PER UBC '91
- GLULAM BEAMS ARE 5 1/8" x 12" 24F E18 WET CONDITIONS PER UBC '91 MANUFACTURER SHALL DESIGN CAMBER IF REQUIRED TO ENSURE A LEVEL BEAM TOP SURFACE FOR PREFAB TRUSSES
- ALL GLULAMS SHALL BE ARCHITECTURAL GRADE



ICE HARBOR LOCK AND DAM
 SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
 JUVENILE FISH FACILITIES

SUPPORT BUILDING
 FLOOR AND ROOF FRAMING PLANS

SCALE AS SHOWN (INV. NO. 94-B-2)
 15 IHF-1-2-6/1

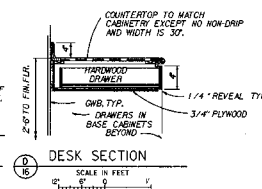
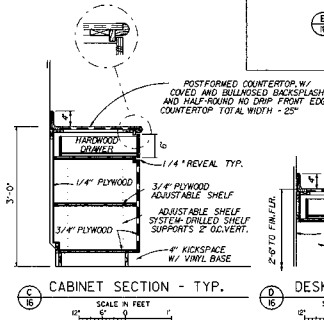
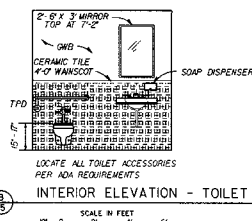
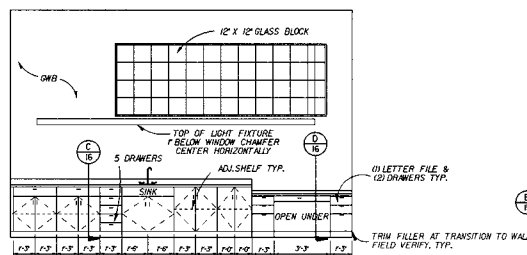
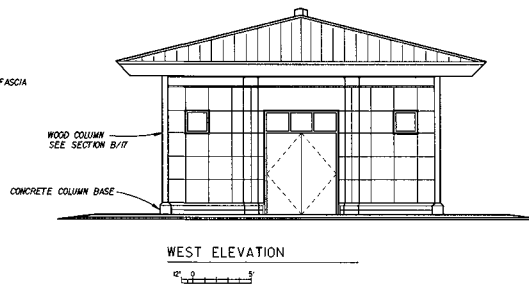
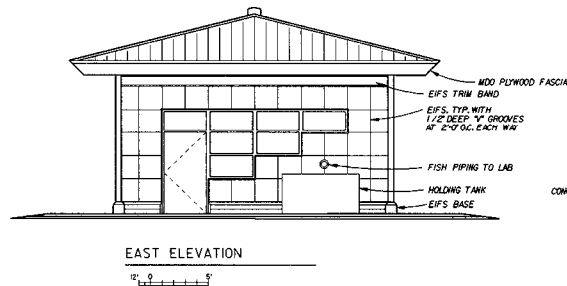
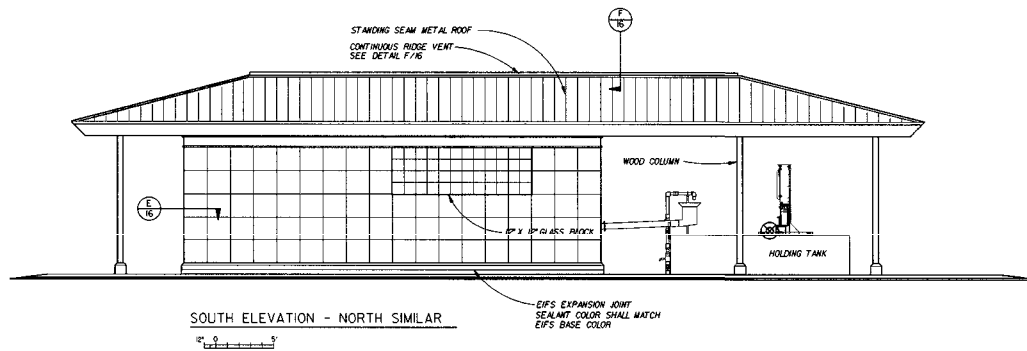
VALUE ENGINEERING PAYS

CONT. NO. 94-C-0033

REFERENCE FILES ATTACHED
 YES NO

LEVELS ON FOR CONTRACT DRWS
 5

SCALE 1/8" = 1'-0" (1/4" = 1'-0")
 1-APR-1997 14:20



NOTES:

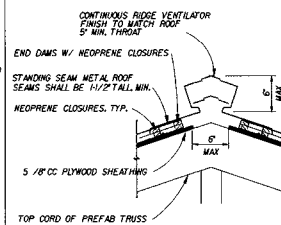
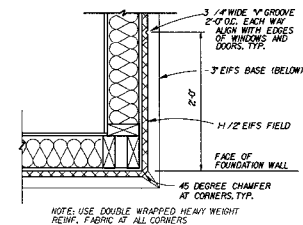
1. ALL CABINERY WOODWORK SHALL BE FINISHED WITH SATIN FINISH, POLYURETHANE VARNISH. APPLY THREE COATS AND RUB OUT WITH STEEL WOOL BETWEEN COATS.
2. PLASTIC LAMINATE COUNTERTOPS SHALL BE POSTFORMED WITH HALF ROUND NOSING AND BACKSLASH INCORPORATING COVERED BASE AND BULLNOSED TOP.
3. PLASTIC LAMINATE COLOR SHALL BE FORMICA '680 'GRANTO' MATTE FINISH OR APPROVED EQUAL.

EXTERIOR FINISH SCHEDULE

ITEM	MATERIAL	TEXTURE	FINISH	COLOR	REMARKS
RIDGE VENT	STEEL	FACTORY	PVF 2	PATINA GREEN	MPFS STANDARD PRODUCT MATCH ROOF COLOR
STANDING SEAM ROOF	STEEL	FACTORY	PVF 2	PATINA GREEN	UL 90 RATED CENTRE ROOF SYSTEM
ROOF FLASHING	STEEL	FACTORY	PVF 2	PATINA GREEN	
FASCIA	WOOD PLYWOOD	SMOOTH	PS-28	5358 W	FILL AND PATCH ALL JOINTS AND HOLES
SOFFIT	WOOD PLYWOOD	SMOOTH	PS-28	5358 W	FILL AND PATCH ALL JOINTS AND HOLES
EIFS (TRIM BAND)	ACRYLIC COATING	SMOOTH	INTEGRAL COLOR	WHITE	SEE NOTES 7 AND 8
COLUMNS	WOOD	SMOOTH SAWNED	POLYURETHANE VARNISH	CLEAR (SATIN)	4 COATS BRUSH APPLIED UN RESISTANT EXTERIOR FORMULA
BEAMS	WOOD GULAM	SMOOTH SAWNED	POLYURETHANE VARNISH	CLEAR (SATIN)	4 COATS BRUSH APPLIED UN RESISTANT EXTERIOR FORMULA
EIFS (FIELD)	ACRYLIC COATING	'SKIP TROWEL'	INTEGRAL COLOR	5353 W 'CEMENT'	SEE NOTES 7 AND 8
GLASS BLOCK	GLASS	FACTORY	FACTORY	CLEAR	SEE NOTE 6
EIFS (BASE)	ACRYLIC COATING	SAND COMPOSE	INTEGRAL COLOR	5355 A 'DELT'	SEE NOTES 7 AND 8
WINDOW FRAMES	STEEL	FACTORY	PS-16	PATINA GREEN	WATCH ROOF COLOR (MAY REQUIRE CUSTOM COLOR MIX)
DOOR FRAMES	STEEL	FACTORY	PS-16	PATINA GREEN	WATCH ROOF COLOR (MAY REQUIRE CUSTOM COLOR MIX)
DOORS	STEEL	FACTORY	PS-16	PATINA GREEN	WATCH ROOF COLOR (MAY REQUIRE CUSTOM COLOR MIX)
SLAB ON GRADE	CONCRETE	MEDIUM BROOK	SEALER	CLEAR	NON SLIP FORMULATION

NOTES

1. PROPRIETARY PRODUCTS ARE LISTED ONLY AS A REFERENCE FOR QUALITY, STYLE, FINISH AND/OR COLOR REQUIRED AND DO NOT PRECLUDE THE USE OF AN APPROVED EQUAL.
2. PAINT COLOR NUMBERS REFERENCE 'MILNER PAINT CO.' PAINTS
3. PAINT SYSTEMS (PS) ARE DESCRIBED IN THE SPECIFICATION
4. ▶ MEANS REFER TO REMARKS
5. JOINT CAULK/SEALANT IN SIDEWALKS SHALL BE INTEGRALLY COLORED TO MATCH THE COLOR OF THE CONCRETE AFTER FULL CURE.
6. GLASS BLOCK SHALL BE 12" X 12" X 3 7/8" NOMINAL UNITS. STYLE SHALL BE SELECTED FROM 'MAJESTY' - PITTSBURGH CORNING 'X-RIB' - WECK 'RIBBED' (BRAND) - GLASS BLOCK UNLIMITED OR APPROVED EQUAL.
7. USE EXTRUDED POLYSTYRENE INSULATION ASTM C578 TYPE IV FOR ALL EIFS.
8. COLORS INDICATED MAY REQUIRE A CUSTOM COLOR MIX.



VALUE ENGINEERING PAYS

CONT. NO. 94-C-0033

REFERENCE FILES ATTACHED
YES NOLEVELS ON FOR CONTRACT DRWS
5SCALE AS SHOWN INV. NO. 94-B-2
16
IHf-1-2-6/2

U. S. ARMY ENGINEER DISTRICT
WALLA WALLA, WASHINGTON

ICE HARBOR LOCK AND DAM
SHAKE RIVER, OREGON, WASHINGTON AND ISLAND
JUVENILE FISH FACILITIES

SUPPORT BUILDING
ELEVATIONS

DATE: 14 JULY 94
BY: K.E. SHAW
CHECKED: K.E. SHAW
APPROVED: K.E. SHAW

SCALE: 1/8\"/>















